

## CLAIMS

1. A fixture for anchorage in bone tissue, comprising a fixture anchoring portion (1) and an application portion (2) intended for connection with a prosthesis, wherein the application portion has an outer end and an end connected with said anchoring portion (1), **characterised** in that the application portion (2) includes a flared part (7) whose outer dimensions widen from the end of said part (7) connected to the anchoring portion (1) in a direction towards the outer end of the application portion (2), wherein said part (7) is elastically resilient transversely to the longitudinal direction of the fixture.

2. A fixture according to Claim 1, **characterised** in that said part (7) is formed by an outer wall (7) that surrounds a cavity which is open towards the outer end of the application portion (2), wherein the outer wall (7) is provided with through-penetrating slots (8) which extend from the outer end of the application portion and which connect the cavity with the outside of said outer wall (7).

3. A fixture according to Claim 1 or 2, **characterised** in that the anchoring portion (1) includes a screw-threaded part (3) which functions to anchor the fixture when screwed into bone material; and in that said flared part (7) has a rotationally symmetrical outer contour around the centre axis defined by the threaded part (3).

4. A fixture according to Claim 3, **characterised** in that the flared part (7) has the form of a truncated cone.

5. A fixture according to Claim 4, **characterised** in that the truncated cone has a cone angle of 5°-12°, preferably 7°-9°.

6. A fixture according to Claim 4 or 5, **characterised** in that each slot (8) defines an angle ( $\alpha$ ) with the radial direction of the truncated cone.

7. A fixture according to Claim 6, **characterised** in that the slots (8) slope rearwardly from within and outwards in relation to the direction in which the fixture

is rotated when screwing in said fixture, this direction being defined by the screw-threaded part.

8. A fixture according to Claim 6, **characterised** in that the slots (8) slope forwardly from within and outwards in relation to the direction in which the fixture is turned when screwing-in the fixture, said direction being defined by the screw-threaded part.

9. A fixture according to Claims 6-8, **characterised** in that the slot angle is 20°-40°, preferably 27°-33°, at the axially and radially outer end of respective slots.

10. A fixture according to any one of Claims 1-9, **characterised** in that the outer wall (7) has a thickness of 0.3-1.0 mm, preferably 0.5-0.7 mm.

11. A fixture according to any one of Claims 1-10, **characterised** in that the fixture is made of titanium.

12. The use of a fixture according to any one of Claims 1-11 for anchoring a prosthesis to bone tissue.

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